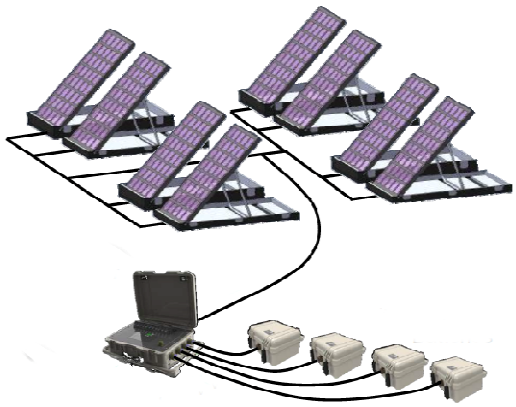
GROUND RENEWABLE EXPEDITIONARY ENERGY NETWORK SYSTEM (GREENS)



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Functional Description

The Ground Renewable Expeditionary Energy Network System (GREENS) is a man transportable module system with renewable energy collection and storage capabilities that can energize Communicational / Electrical equipment, sensors and radios. The GREENS uses arrays of solar panels and rechargeable batteries to provide an average continuous output of 300 Watts. This fills the gap between what a large power generator and a battery provides. In addition to renewable energy the GREENS can also be hybridized with generators and vehicle power to provide a intelligent small scale energy management system.

Technical Description

Greens

Manufacturer:	UEC Electronics
Model:	N/A

Temperatures

Operating:	-4˚F to +131˚F
Storage:	-59˚F to +160˚F

Power Capabilities

Input

Solar:	1.6kW Solar Array
Vehicle DC:	28
AC :	120 @ 50/60Hz

Output

DC:	22-30

Dimensions

Integrated Solar Panel Case Assembly (ISPCA)	Length (in):	67
	Width (in):	36
	Height (in):	12
	Weight (lbs):	145
	Volume (ft^3):	16.74
Controller	Length (in):	23
	Width (in):	17
	Height (in):	8.5
	Weight (lbs):	60
	Volume (ft^3):	1.92
HELB	Length (in):	13
	Width (in):	16
	Height (in):	7
	Weight (lbs):	38
	Volume (ft^3):	.84
Harness Kit	Length (in):	32
	Width (in):	21
	Height (in):	13
	Weight (lbs):	82
	Volume (ft^3):	5.05